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CURRICULUM SUBCOMMITTEE AGENDA

4 April 2013

A meeting of the Curriculum Subcommittee of the Educational Policies Committee will be held on 4 April 2013 at 2 p.m. in Old Main 136 (Champ Hall Conference Room).

Approval of the minutes of the 7 March 2013 meeting (see below)

Caine College of the Arts

Course Prefix Change, Credit Hour Change, Course Description Change, Administrative Responsibility Change, Repeatable for Credit Change

CCA 3330	Arts Symposium	2 cr.
	Previously USU 3330, 1- 2 cr.	
	Administrative Responsibility: Caine College of the Arts	
	Not Repeatable for credit	
	University Studies Designation: DHA	
	Effective Spring 2014	

Department of Theatre Arts

New Course

THEA 3330	Drama for Classroom Teachers	3 cr.
	Prerequisite: Not open to Theatre Arts Majors and Minors	
	Effective Fall 2013	

Jon M. Huntsman School of Business

School of Accountancy

Prerequisite Change, Course Description Change

ACCT 6200	Advanced Topics in Financial Reporting	3 cr.
	Prerequisite: ACCT 3120	
	Effective Spring 2014	
ACCT 6410	Tax Research and Procedures	3 cr.
	Prerequisites: ACCT 3410	
	Prerequisite or Corequisite: ACCT 6400	
	Effective Spring 2014	
ACCT 6420	Taxation of Corporations and Shareholders	3 cr.
	Prerequisites: ACCT 3410 and ACCT 6400	
	Effective Spring 2014	

Title Change, Prerequisite Change, Course Description Change

ACCT 6250 Accounting Research, Cases and International Topics 3 cr.
Previously International Accounting and Financial Reporting
Prerequisite: ACCT 6200
Effective Spring 2014

ACCT 6440 Taxation of Flow-Through Entities 3 cr.
Previously Taxation of Partnerships, Estates, and Trusts
Prerequisites: ACCT 3410 and ACCT 6400
Effective Spring 2014

ACCT 6460 Advanced Tax Topics 3 cr.
Previously Tax Topics
Prerequisites: ACCT 3410 and ACCT 6400
Effective Spring 2014

ACCT 6620 Financial Statement Concepts, Analysis, and Valuation 3 cr.
Previously Financial Statement Analysis and Valuation
Prerequisite: ACCT 6200
Effective Spring 2014

Course Number Change, Prerequisite Change

ACCT 6400 Income Taxation II 3 cr.
Previously ACCT 4410
Prerequisite: ACCT 3410
Effective Spring 2014

Course Prefix Change

ACCT 6560 Business Law and Professional Responsibilities 3 cr.
Previously PFP 6560
Effective Spring 2014

Title Change, Dual List Change

ACCT 6300 Advanced Accounting Internship 3 cr.
Previously Accounting Internship
Remove dual list of ACCT 4300
Effective Spring 2014

ACCT 6700 Advanced Seminar in Accounting 3 cr.
Previously Seminar in Accounting
Remove dual list of ACCT 4700
Effective Spring 2014

Delete Course		
ACCT 4200	Advanced Accounting Effective Spring 2014	3 cr.
ACCT 5480/6480	Case Studies in Taxation Effective Spring 2014	3 cr.
ACCT 6610	Accounting Theory and Research Effective Spring 2014	3 cr.

Department of Economics and Finance

Prerequisite Change

ECN 5020	Macroeconomic Theory Prerequisite: ECN 4010 Effective Spring 2014	3 cr.
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Emma Eccles Jones College of Education and Human Services

Department of Family, Consumer and Human Development

New Course

FCHD 6032	Research Methods II: Measurement in Family Studies and Human Development Prerequisite: FCHD 6031 Effective Fall 2013	3 cr.
FCHD 6045/7045	Family Finance for Practitioners Effective Fall 2013	3 cr.
FCHD 6325	Gender and Diversity in Family Therapy Effective Fall 2013	3 cr.
FCHD 6355	Play Therapy in the Practice of Family Therapy Effective Fall 2013	3 cr.
FCHD 6540/7540	Adulthood and Aging Effective Fall 2013	3 cr.
FCHD 7033	Research Methods III: Dyadic and Longitudinal Data Prerequisites: FCHD 6032, EDUC 6600, EDUC 7610 Effective Fall 2013	3 cr.
FCHD 7034	Research Methods IV: Extant/Secondary Data Analysis Prerequisites: FCHD 6032, EDUC 6600 Effective Fall 2013	3 cr.

Course Number Change, Title Change

FCHD 6031	Research Methods I Previously Research Methods, FCHD 6030 Effective Spring 2014	3 cr.
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Department of Health, Physical Education and Recreation

New Course

PEP 6410	Bioenergetics and Exercise Metabolism Effective Fall 2013	2 cr.
PEP 6610	Topics in Biomechanics Effective Fall 2013	2 cr.
PEP 6620/7620	Methods in Biomechanics Effective Fall 2013	1 cr.
PEP 6840	Fundamentals of Motor Behavior Effective Fall 2013	2 cr.

Prerequisite Change

PEP 3200	Motor Learning and Technology in Skill Analysis University Studies Designation: CI Prerequisite: Major in Human Movement Science, Elementary Education or Pre Elementary Education Effective Spring 2014	3 cr.
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School of Teacher Education and Leadership

New Course

TEAL 5310	Content Area Reading and Writing Prerequisite: Admission to Teacher Education or Literacy Endorsement Program Effective Fall 2013	3 cr.
TEAL 5320	Theories and Models of Reading Prerequisite: Admission to Teacher Education or Literacy Endorsement Program Effective Fall 2013	3 cr.
TEAL 5340	Adolescent Literacy Development Prerequisite: Admission to Teacher Education or Literacy Endorsement Program Effective Fall 2013	3 cr.

TEAL 5350	Reading Assessment and Intervention Prerequisite: Admission to Teacher Education or Literacy Endorsement Program Effective Fall 2013	3 cr.
TEAL 5380	Effective Writing Instruction Prerequisite: Admission to Teacher Education or Literacy Endorsement Program Effective Fall 2013	3 cr.
TEAL 5390	Teaching with Tradebooks in K-12 Classrooms Prerequisite: Admission to Teacher Education or Literacy Endorsement Program Effective Fall 2013	3 cr.
TEAL 5570	Advanced Comprehension Prerequisites: TEAL 5310 and Admission to Teacher Education or Literacy Endorsement Program Effective Fall 2013	3 cr.
Prerequisite Change		
TEAL 5230	Evidence-based Literacy Instruction for K-6 Learners Prerequisite: Admission to Teacher Education or Literacy Endorsement Program Effective Spring 2014	3 cr.
Title Change, Course Description Change		
TEAL 6010/7010	Critical Issues in Education Previously Critical Issues in Secondary Education Effective Spring 2014	3 cr.

College of Engineering
Department of Biological Engineering
Prerequisite Change BENG courses
Effective Spring 2014

Prefix/Course	Title	Cred	Sem	Add Prerequisite:
BENG 3000	Instrumentation for Biological Systems	3	Sp	Admission to Professional Engineering Program
BENG 3670	Transport Phenomena in Bio-Environmental Systems	3	Sp	Admission to Professional Engineering Program
BENG 3870	Biological Engineering Design I	1	F,S,S	Admission to Professional Engineering Program
BENG 4250	Cooperative Practice	3	F,S,S	Admission to Professional Engineering Program
BENG 4880	Biological Engineering Design II CI	3	F,S,S	Admission to Professional Engineering Program
BENG 4890	Biological Engineering Design III CI	3	F,S,S	Admission to Professional Engineering Program
BENG 4930	Special Studies	1-4	F,S,S	Admission to Professional Engineering Program
BENG 5020	Biological Systems Modeling and Controls	3	Fall	Admission to Professional Engineering Program
BENG 5810	Food and Bioprocess Engineering	3	Fall	Admission to Professional Engineering Program
BENG 5620	Metabolic Engineering I	3	Sp	Admission to Professional Engineering Program
BENG 5630	Synthetic Biological Engineering	3	Sp	Admission to Professional Engineering Program
BENG 5640	Biofuels	3	Fall	Admission to Professional Engineering Program
BENG 5650	Biofuels Systems Design	3	Sp	Admission to Professional Engineering Program
BENG 5660	Environmental Quality Analysis	3	Fall	Admission to Professional Engineering Program
BENG 5680	Soil-based Waste Management	2	Sp	Admission to Professional Engineering Program
BENG 5700	Introduction to Microfabrication	3	Sp	Admission to Professional Engineering Program
BENG 5790	Protein Structure/Function and Purification	3	Sp	Admission to Professional Engineering Program
BENG 5810	Biochemical Engineering	3	Fall	Admission to Professional Engineering Program
BENG 5830	Management and Utilization of Biological Solids and Wastewater	3	Fall	Admission to Professional Engineering Program
BENG 5840	Introduction to Biophotonics	3	Fall	Admission to Professional Engineering Program
BENG 5840X 5850	Biomaterials Engineering	3	Fall	Admission to Professional Engineering Program
BENG 5890	Tissue Engineering	3	Sp	Admission to Professional Engineering Program
BENG 5910	Introduction to Biosensors	3	Fall	Admission to Professional Engineering Program
BENG 5930	Special Studies	1-4	F,S,S	Admission to Professional Engineering Program

Department of Mechanical and Aerospace Engineering

New Course

MAE 5210	High Performance Computing for Engineers Prerequisite: MAE 3210 Effective Fall 2013	3 cr.
MAE 5450	Renewable Energy Prerequisite: MAE 3440 Effective Fall 2013	3 cr.

College of Humanities and Social Science

Department of History

Add University Studies Designation

HIST 4760	America in the 1960's University Studies Designation: DHA Effective Fall 2013	3 cr.
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Department of Languages, Philosophy and Communication Studies

New Course

ARBC 3020	Advanced Arabic II Prerequisite: ARBC 3010 or permission of instructor Effective Fall 2013	3 cr.
CMST 3140	Communication in Family Contexts Prerequisite: CMST 2110 or permission of instructor Effective Fall 2013	3 cr.
CMST 4430	Negotiation in a Global World Effective Fall 2013	3 cr.
LING 4700/6700	Foundations of Dual Language and Immersion Education Prerequisite for LING 4700: LING 4400; and LING 3300 or LING 4300 Prerequisite for LING 6700: Permission of Instructor Effective Fall 2013	3 cr.
LING 6600	Sociocultural Perspectives or Language Learning Effective Fall 2013	3 cr.
Prerequisite Change		
SPAN 3600	Survey of Spanish Literature I University Studies Designation: DHA Prerequisite: SPAN 3040 or SPAN 3060 or SPAN 3300 or permission of instructor Effective Spring 2014	3 cr.

SPAN 3610	Survey of Spanish Literature II University Studies Designation: DHA Prerequisite: SPAN 3040 or SPAN 3060 or SPAN 3300 or permission of instructor Effective Spring 2014	3 cr.
SPAN 3620	Survey of Latin American Literature I University Studies Designation: DHA Prerequisite: SPAN 3040 or SPAN 3060 or SPAN 3300 or permission of instructor Effective Spring 2014	3 cr.
SPAN 3630	Survey of Latin American Literature II University Studies Designation: DHA Prerequisite: SPAN 3040 or SPAN 3060 or SPAN 3300 or permission of instructor Effective Spring 2014	3 cr.
SPAN 3640	Introduction to U.S. Latino/a Literature Prerequisite: SPAN 3040 or SPAN 3060 or SPAN 3300 or permission of instructor Effective Spring 2014	3 cr.

Department of Political Science

New Course

POLS 5400	National Security Strategy and Strategic Uncertainty Repeatable for credit Effective Fall 2013	3 cr.
POLS 5890	Special Topics Repeatable for credit Prerequisite: Permission of instructor Effective Fall 2013	1-5 cr.

Department of Sociology, Social Work and Anthropology

New Course

ANTH 4140/6140	Anthropology of Global Health Effective Fall 2013	3 cr.
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Other Business

1. Request from the Department of Music to add two additional specializations, Performance and Conducting, to its Master of Music program (see attached)
2. Request from the Department of Civil and Environmental Engineering to reduce the number of credits required for the Civil and Environmental Engineering PhD **and** the Irrigation Engineering PhD (see attached)
3. Request from the Department of Environment and Society to reduce the number of credits required for the Human Dimensions of Ecosystem Science and Management PhD (see attached)

Election of 2013-2014 Curriculum Subcommittee Chair

EPC and Curriculum Subcommittee Schedule for 2013-2014

Agenda Items Due

August 22, 2013
September 19, 2013
October 24, 2013
November 21, 2013
December 12, 2013
January 23, 2014
February 21, 2014
March 20, 2014

EPC and Curriculum Subcommittee Meetings

September 5, 2013
October 3, 2013
November 7, 2013
December 5, 2013
January 9, 2014
February 6, 2014
March 6, 2014
April 3, 2014

CURRICULUM SUBCOMMITTEE MINUTES
7 March 2013

A meeting of the Curriculum Subcommittee of the Educational Policies Committee was held on 7 March 2013 at 2 p.m. in Old Main 136 (Champ Hall Conference Room).

Present: Larry Smith, Chair (representing Ed Reeve)
 Janet Anderson, College of Agriculture (representing Ed Reeve)
 Darrin Brooks, Caine College of the Arts
 Frank Caliendo, Huntsman School of Business
 Scott Hunsaker, Emma Eccles Jones College of Education and
 Human Services
 Dean Adams, College of Engineering
 Kristine Miller, College of Humanities and Social Sciences
 Richard Mueller, College of Science
 Travis Peterson, Regional Campuses and Distance Education
 Wendy Holliday, Libraries
 Melanie Nelson, USU-Eastern (representing Michelle Fleck)
 Roland Squire, Registrar's Office
 Cathy Gerber, Registrar's Office

Absent: Norm Jones, General Education Subcommittee Chair
 Nancy Mesner, College of Natural Resources
 Shelley Lindauer, Graduate Council
 Jordan Hunt, ASUSU Academic Senate President
 Zach Portman, Graduate Studies Vice President

Visitors: Leon Anderson, Department Head, SSWA
 Launa Julander, ITLS
 Doug Jackson-Smith, SSWA

Dean Adams moved to approve the minutes of the 7 February 2013 meeting. Kristine Miller seconded; motion approved.

Janet Anderson moved to approve the business of the College of Agriculture. Richard Mueller seconded; motion approved.

College of Agriculture

Department of Animal, Dairy and Veterinary Sciences

Delete Course

ADVS 1010	Artificial Insemination and Reproduction Effective Fall 2013	2 cr.
ADVS 1920	New Student Orientation Effective Fall 2013	1 cr.

Department of Agricultural Systems Technology and Education

Title Change, Course Description Change

ASTE 2900	Food Matters: Ethics, Economics, and the Environment Previously Humanity in the Food Web University Studies Designation: BSS Effective Spring 2014	3 cr.
ASTE/JCOM 3050	Technical and Professional Communication Principles Previously Technical and Professional Communication Principles in Agriculture University Studies Designation: CI Effective Fall 2013	3 cr.

School of Applied Sciences and Technology Education

New Course

AV 1000	Private Pilot Introduction Pass/Fail only Effective Summer 2013	1 cr.
AV 4300	Airline Operations and Management Simulation Previously Airline Marketing Prerequisite: AV 4280 Effective Spring 2014	3 cr.

Department of Nutrition, Dietetics and Food Sciences

New Course

NDFS 5111/6111	Food Microbiology Laboratory Effective Spring 2014	1 cr.
NDFS 6180	Food Safety Inspection and Auditing Effective Fall 2013	1-2 cr.

Credit Hour Change

NDFS 5110/6110	Food Microbiology Previously 4 cr. University Studies Designation for NDFS 5110: CI Effective Spring 2014	3 cr.
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Darrin Brooks moved to approve the business of the Caine College of the Arts. Richard Mueller seconded; motion approved.

Caine College of the Arts

Department of Music

Credit Hour Change

MUSC 1190	World Music Previously 2 cr. Effective Fall 2013	2-3 cr.
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Title Change, Credit Hour Change, Prerequisite Change, Course Description Change

MUSC 4730	Directed Project in Instrumental Pedagogy and Literature Previously Directed Project in Instrumental Pedagogy, 2 cr. Repeatable for credit University Studies Designation: CI Prerequisites: ENGL 2010 and Music Performance Major or permission of instructor Effective Summer 2013	3 cr.
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Department of Theatre Arts

New Course

THEA 2710	The Art of Storytelling Effective Fall 2013	3 cr.
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Dual List Change

THEA 4710	Contemporary Theatre Repeatable for credit University Studies Designations: CI/DHA Remove dual list of THEA 6710 Effective Fall 2013	3 cr.
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THEA 5720	Special Topics in Theatre History and Literature Repeatable for credit Remove dual list of THEA 6720 Effective Fall 2013	3 cr.
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Title Change, Credit Hour Change, Dual List Change

THEA 6710	Contemporary Theatre Studies Previously Contemporary Theatre, 3 cr. Repeatable for credit Remove dual list of THEA 4710 Effective Fall 2013	2 cr.
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THEA 6720	Specialized Theatre History and Literature Topics Previously Special Topics in Theatre History and Literature, 3 cr. Repeatable for credit Remove dual list of THEA 5720 Effective Fall 2013	2 cr.
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Frank Caliendo moved to approve the business of the Jon M. Huntsman School of Business.
Darrin Brooks seconded; motion approved.

Jon M. Huntsman School of Business

School of Accountancy

Delete Course

BUS 3010	Intermediate Accounting I Effective Summer 2013	3 cr.
BUS 3020	Intermediate Accounting II Effective Summer 2013	3 cr.
BUS 3310	Managerial Cost Accounting Effective Summer 2013	3 cr.
BUS 3410	Federal Income Tax I Effective Summer 2013	3 cr.
BUS 4200	Advanced Accounting Effective Summer 2013	3 cr.
BUS 4410	Taxation of Business Entities Effective Summer 2013	3 cr.
BUS 4500	Accounting Systems Effective Summer 2013	3 cr.
BUS 4510	Auditing Principles Effective Summer 2013	3 cr.

Department of Management

Prerequisite Change, Course Description Change

MGT 2050	Ethical and Legal Environment of Business Prerequisites: GPA of 2.5 or higher and completion of 30 credit hours Effective Spring 2014	3 cr.
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Scott Hunsaker moved to approve the business of the Emma Eccles Jones College of Education and Human Services. Richard Mueller seconded; motion approved.

Emma Eccles Jones College of Education and Human Services

Department of Psychology

New Course

- | | | |
|----------|--|-------|
| PSY 6390 | Program Evaluation in the Schools: Models and Guidelines
Prerequisite: Admission into the School Counseling graduate program or prior approval
Effective Summer 2013 | 3 cr. |
| PSY 6420 | Group Counseling in the Schools
Prerequisite: Admission into the School Counseling graduate program
Effective Summer 2013 | 3 cr. |
| PSY 6610 | College and Career Readiness for School Counselors
Prerequisite: Admission into the School Counseling graduate program
Effective Summer 2013 | 3 cr. |

Title Change, Course Description Change

- | | | |
|---------------|--|-------|
| PSY 5330/6330 | Principles of Psychological Measurement and Test Theory
Previously Tests and Measurement
Effective Fall 2013 | 3 cr. |
|---------------|--|-------|

Title Change, Prerequisite Change, Course Description Change

- | | | |
|----------|--|-------|
| PSY 6340 | Consultation in the Schools
Previously Psychological and Educational Consultation
Prerequisite: Admission into the School Counseling graduate program
Effective Summer 2013 | 3 cr. |
|----------|--|-------|

Title Change, Course Description Change, Dual List Change

- | | | |
|----------|--|-------|
| PSY 7650 | Multilevel and Marginal Models for the Social Sciences
Previously Longitudinal Research Design and Analysis
Remove dual list of EDUC 7650
Effective Spring 2014 | 3 cr. |
|----------|--|-------|

Dean Adams moved to approve the business of the College of Engineering. Darrin Brooks seconded; motion approved.

College of Engineering

Department of Biological Engineering

Prerequisite Change

- | | | |
|-----------|--|-------|
| BENG 2330 | Engineering Properties of Biological Materials
Prerequisites: BIOL 1610 and BENG 1880
Prerequisites/Corequisites: CHEM 2300 or CHEM 2310; and CHEM 2315
Effective Fall 2013 | 3 cr. |
|-----------|--|-------|

BENG 3200 Introduction to Unit Operations in Biological Engineering 3 cr.
 Prerequisite: BENG 2330
 Prerequisites/Corequisites: CHEM 2300 or CHEM 2310; and CHEM 2315
 Effective Fall 2013

BENG 5600/6600 Downstream Processes in Biological Engineering 3 cr.
 Prerequisites: BENG 3670 or CEE 3670; Admission to Professional Engineering
 Effective Spring 2014

Kristine Miller moved to approve the business of the College of Humanities and Social Sciences.
 Richard Mueller seconded; motion approved.

College of Humanities and Social Sciences

Department of History

New Course

HIST 4760 America in the 1960's 3 cr.
 Effective Fall 2013

Add Multiple List

HIST 4730 History of Black America 3 cr.
 University Studies Designation: CI
 Add multiple list of RELS 4730
 Effective Fall 2013

Department of Languages, Philosophy and Communication Studies

Add Multiple List

PHIL 3120 Early Modern Philosophy 3 cr.
 University Studies Designation: CI
 Add multiple list of RELS 3120
 Effective Fall 2013

Add Multiple List, Prerequisite Change, Course Description Change

PHIL 3150 Kant and the Nineteenth Century 3 cr.
 University Studies Designation: CI
 Add multiple list of RELS 3150
 Prerequisites: PHIL 1000 or PHIL/RELS 3120 or permission of instructor
 Effective Fall 2013

Military Science

Add University Studies Designation

MSL 4010 Developing Adaptive Leaders 3 cr.
 University Studies Designation: CI
 Effective Spring 2013

Richard Mueller moved to approve the business of the S.J. and Jessie E. Quinney College of Natural Resources. Kristine Miller seconded; motion approved.

S. J. and Jessie E. Quinney College of Natural Resources

Department of Environment and Society

Add University Studies Designation

ENVS 1350	Introduction to Environmental Science	3 cr.
	University Studies Designation: BLS	
	Effective Summer 2013	

Department of Wildland Resources

Inactivate Course

WILD/BIOL/PSC 5420	Forest and Shade Trees Pathology	3 cr.
	University Studies Designation: CI	
	Effective Spring 2014	

WILD/PSC 5650	Urban/Community Forestry	3 cr.
	Effective Spring 2014	

Delete Course

WILD/BIOL 2300	Mushroom Identification	1 cr.
	Effective Fall 2013	

WILD/BIOL 2310	Mushroom Identification Lab	1-2 cr.
	Repeatable for credit	
	Effective Fall 2013	

Richard Mueller moved to approve the business of the College of Science. Scott Hunsaker seconded; motion approved.

College of Science

Department of Biology

New Course

BIOL 1050	Biology Professions	1 cr.
	Effective Fall 2013	

BIOL 1060	Prehealth Professions	1 cr.
	Effective Fall 2013	

Other Business

1. Wendy Holliday moved to approve the request from the Sociology, Social Work and Anthropology Department to amend the number of credits required for completion of the PhD in Sociology. Darrin Brooks seconded; motion approved. (see below)
2. Dean Adams moved to approve the request from the Engineering Education Department to reduce the number of credits required for the post-MS doctoral degree. Scott Hunsaker seconded; motion approved. (see below)
3. Scott Hunsaker moved to approve the request from the Management Information Systems Department to discontinue the MS in Management Information Systems and create a Master of Management Information Systems degree. Richard Mueller seconded; motion approved pending revisions. (see below)
4. The request from the Management Department to discontinue the MS in Human Resources and change the name to Master of Strategic Human Resources was withdrawn from the agenda.
5. Scott Hunsaker moved to approve the request from the Instructional Technology and Learning Sciences Department to discontinue the Plan C in the MS in Instructional Technology and Learning Sciences and create a Master of Learning Technologies and Instructional Design. Richard Mueller seconded; motion approved pending revisions. (see below)
6. Frank Caliendo moved to approve the request from the Nutrition Dietetics and Food Science Department to approve a Graduate Certificate for completion of the existing USU graduate Dietetic Internship. Kristine Miller seconded; motion approved pending revisions. (see below)

Meeting adjourned 2:30 p.m.

Larry Smith conducted the meeting.

Cathy Gerber recorded the minutes.

Program Request - Abbreviated Template
Utah State University
Master of Music Degree with Specializations in Performance, Conducting, and
Piano Performance & Pedagogy
Fall Semester 2013

With the growth in arts education at Utah State University, facilitated and accelerated by the creation of the Caine College of the Arts and driven by Dean Craig Jessop's leadership, it is necessary to restructure our existing Master of Music program, identifying specializations within the degree. Our current Master of Music degree is linked to a specialization in Piano Performance & Pedagogy even though we offer numerous additional graduate courses that prepare students for alternate outcomes within the M.M. degree. In order to increase the scope and utilizations of that degree, we are defining two additional specializations: Performance and Conducting. We are also clarifying that the existing Piano Performance & Pedagogy remains as a M.M. degree program specialization.

Section II: Need

The need for these programs is two-fold: demand and growth. On one hand we receive many requests each year from students who want to do their Master of Music degree at USU. These requests come from students who are graduates of USU, BYU, and the University of Utah as well as other four-year institutions. On the other, we know of no other comparably sized music department in the nation that does not have a vibrant and growing graduate program, and if we are to meet our long-range goal of being one of the finest music departments in the nation, we must attain parity with peer institutions. The presence of graduate programs will solidify our presence in the regional and national education community, while also contributing to the development of our undergraduate programs.

Section III: Institutional Impact

Adding two additional specializations will increase the graduate student population in the department to a maximum of twenty over the next five years. We have limited funding for graduate assistants and scholarships, but intend to admit only high quality students, and maintain very high academic and artistic standards. This in itself will be a paramount consideration in the rate of growth for our graduate program in the near-term. The curricular content of the specializations is solely within music so there will be very little impact on other departments/instructional programs.

The music faculty is strongly supportive of the specializations and eager to be involved with teaching and mentoring our new graduate students. However, to facilitate the addition of the new specializations, we will make some minor changes to graduate faculty workloads. We have discussed this with the graduate faculty and agree that with careful implementation and oversight from the graduate committee and chair, only minor changes are necessary. In addition to staffing considerations, we will adjust room/facility assignments and, make changes in scholarship funding.

The specialization in question existed several years ago but fell inactive. All of the courses required for the degrees currently exist in the course catalog/inventory. We have requested some minor name changes to a few courses but the curriculum is in place to accommodate the proposed changes.

The new specializations and students in those specializations will not add a significant equipment requirement to our department or college. No new facilities will be required, but we will need to redistribute existing departmental space to provide for graduate students on fellowship. This is an area of concern because space in the performing arts areas is so limited. Equipment needed for the new graduate specializations and students will be mostly computers, printers, and perhaps a little office furniture. Graduate students in music are expected to have their own instruments (other than pianos, organs, or other large instruments).

Section IV: Finances

There will be no new immediate faculty costs related to the new specializations. We will reallocate some scholarship funding to allow us to give modest graduate assistantships and some scholarships. Our goal is to have 20 graduates in the program within five years. Some of these, not all, will be funded at a modest level. We will seek additional funding from every possible source including fundraising, endowments from donors, etc.

We have already begun to limit or cap some programs (Music Therapy) and strategically recruit (and offer scholarships) to those areas of greatest need in the department in a focused effort to shape the undergraduate programs in a way that will allow us to reassign faculty and resources to the graduate specializations. While this is not a change that is easy to see from a budget standpoint, it is a restructuring that impacts where our limited funds will be spent to reflect our department long-range goals and objectives. Strengthening and growing our graduate programs is one of the most important of these goals.

Section V: Program Curriculum

THIS SECTION OF THE ABBREVIATED TEMPLATE REQUIRED FOR EMPHASES AND MINORS ONLY.

All Program Courses

Master of Music Required (Core) Courses for all Specializations:

Course Prefix & Number	Title	Credit Hours
MUSC 5980	Introduction to Music Research	3
MUSC 6130	Music History Seminar	3
MUSC 6140	Music Theory Seminar	3
	Sub-Total	9

Specialization in Performance:

Course Prefix & Number	Title	Credit Hours
MUSC 6100	Graduate Performance Ensemble/Practicum	4
MUSC 6620	Seminar in Repertory and Literature	2
MUSC 6630	Individual Instruction for Graduates	8
MUSC 6900	Independent Study	3-9
MUSC 6910	Individual Recital	4
	(2 two-credit recitals)	
	Sub-Total	21
Total Number of Credits		30

Specialization in Conducting:

Course Prefix & Number	Title	Credit Hours
MUSC 6100	Graduate Performance Ensemble/Practicum	4
MUSC 6110	Advanced Conducting	2
MUSC 6120	Advanced Rehearsal Techniques	2
MUSC 6610	Practicum in Conducting	1-4
MUSC 6620	Seminar in Repertory and Literature	2
MUSC 6630	Individual Instruction for Graduates	4
MUSC 6900	Independent Study	1-6
MUSC 6910 and/or MUSC 6970	Individual Recital and/or Research and Presentation	1-3 and/or 2-6
	Sub-Total	21
Total Number of Credits		30

Specialization in Piano Performance & Pedagogy:

Course Prefix & Number	Title	Credit Hours
MUSC 5420	Piano Literature I	2
MUSC 6410	Collaborative Artistry	2
MUSC 6420	Pedagogy Practicum	4
MUSC 6430	Advanced Piano Pedagogy	4
MUSC 6440	Piano Literature II	2
MUSC 6630	Individual Instruction for Graduates	8
MUSC 6900	Independent Study	3
MUSC 6910	Individual Recital	2
	Sub-Total	27
Total Number of Credits		36

New Courses to Be Added in the Next Five Years

No new courses need to be added. All courses are currently offered through Utah State University.

Program Schedule

Master of Music with Specialization in Performance:

Fall Semester I

MUSC 5980	Introduction to Music Research	3
MUSC 6100	Graduate Performance Ensemble	1
MUSC 6620	Seminar in Repertory and Literature	2
MUSC 6630	Individual Instruction for Graduates	2

Spring Semester I

MUSC 6100	Graduate Performance Ensemble	1
MUSC 6130	Music History Seminar	3
MUSC 6630	Individual Instruction for Graduates	2
MUSC 6910	Individual Recital	1

Fall Semester II

MUSC 6100	Graduate Performance Ensemble	1
MUSC 6140	Music Theory Seminar	3
MUSC 6630	Individual Instruction for Graduates	2
MUSC 6900	Independent Study	2

Spring Semester II

MUSC 6100	Graduate Performance Ensemble	1
MUSC 6630	Individual Instruction for Graduates	2
MUSC 6900	Independent Study	2
MUSC 6910	Individual Recital	2
	OR	
MUSC 6970	Research & Presentation	2

Total Credits: 30

Master of Music with Specialization in Conducting:

Fall Semester I

MUSC 5980	Introduction to Music Research	3
MUSC 6100	Graduate Performance Ensemble	1
MUSC 6110	Advanced Conducting	2
MUSC 6610	Practicum in Ensemble Performance	1
MUSC 6630	Individual Instruction for Graduates	1

Spring Semester I

MUSC 6100	Graduate Performance Ensemble	1
MUSC 6130	Music History Seminar	3
MUSC 6610	Practicum in Ensemble Performance	1
MUSC 6620	Seminar in Repertory and Literature	2
MUSC 6630	Individual Instruction for Graduates	1

Fall Semester II

MUSC 6100	Graduate Performance Ensemble	1
MUSC 6120	Advanced Rehearsal Techniques	2
MUSC 6140	Music Theory Seminar	3
MUSC 6630	Individual Instruction for Graduates	1

Spring Semester II

MUSC 6100	Graduate Performance Ensemble	1
MUSC 6630	Individual Instruction for Graduates	1
MUSC 6900	Independent Study	2
MUSC 6910	Individual Recital	3
	OR	
MUSC 6970	Research & Presentation	3
Total Credits:		30

Master of Music with Specialization in Piano Performance & Pedagogy:

Fall Semester I

MUSC 5420	Piano Literature I	2
MUSC 5980	Introduction to Music Research	3
MUSC 6420	Pedagogy Practicum	2
MUSC 6630	Individual Instruction for Graduates	2

Spring Semester I

MUSC 6130	Music History Seminar	3
MUSC 6420	Pedagogy Practicum	2
MUSC 6440	Piano Literature II	2
MUSC 6630	Individual Instruction for Graduates	2

Fall Semester II

MUSC 6140	Music Theory Seminar	3
MUSC 6410	Collaborative Artistry	2
MUSC 6430	Advanced Piano Pedagogy	2
MUSC 6630	Individual Instruction for Graduates	2

Spring Semester II

MUSC 6900	Independent Study	3
MUSC 6430	Advanced Piano Pedagogy	2
MUSC 6630	Individual Instruction for Graduates	2
MUSC 6910	Individual Recital	2
Total Credits:		36

Cover/Signature Page - Abbreviated Template/Abbreviated Template with Curriculum

Institution Submitting Request: **Utah State University**
 Proposed Title: **PhD in Civil and Environmental Engineering** (no change from current title)
 Currently Approved Title: **Doctor of Philosophy (PhD) in Civil and Environmental Engineering**
 School or Division or Location: **College of Engineering**
 Department(s) or Area(s) Location: **Department of Civil and Environmental Engineering**
 Recommended Classification of Instructional Programs (CIP) Code¹ (for new programs):
 Current Classification of Instructional Programs (CIP) Code (for existing programs): **14.0801**
 Proposed Beginning Date (for new programs): **08/26/2013**
 Institutional Board of Trustees' Approval Date:

Proposal Type (check all that apply):

Regents' General Consent Calendar Items		
<i>R401-5 OCHE Review and Recommendation; Approval on General Consent Calendar</i>		
SECTION NO.		ITEM
5.1.1	<input type="checkbox"/>	Minor*
5.1.2	<input type="checkbox"/>	Emphasis*
5.2.1	<input type="checkbox"/>	Certificate of Proficiency*
5.2.3	<input type="checkbox"/>	Graduate Certificate*
5.4.1	<input type="checkbox"/>	New Administrative Unit
	<input type="checkbox"/>	Administrative Unit Transfer
	<input type="checkbox"/>	Administrative Unit Restructure
	<input type="checkbox"/>	Administrative Unit Consolidation
5.4.2	<input type="checkbox"/>	New Center
	<input type="checkbox"/>	New Institute
	<input type="checkbox"/>	New Bureau
5.5.1	<input type="checkbox"/>	Out-of-Service Area Delivery of Programs
5.5.2	<input type="checkbox"/>	Program Transfer
	<input checked="" type="checkbox"/>	Program Restructure
	<input type="checkbox"/>	Program Consolidation
5.5.3	<input type="checkbox"/>	Name Change of Existing Programs
5.5.4	<input type="checkbox"/>	Program Discontinuation
	<input type="checkbox"/>	Program Suspension
5.5.5	<input type="checkbox"/>	Reinstatement of Previously Suspended Program
	<input type="checkbox"/>	Reinstatement of Previously Suspended Administrative Unit

*Requires "Section V: Program Curriculum" of Abbreviated Template

Chief Academic Officer (or Designee) Signature:

I certify that all required institutional approvals have been obtained prior to submitting this request to the Office of the Commissioner.

Signature

Date: **MM/DD/YEAR**

Printed Name: **Name of CAO or Designee**

¹ CIP codes must be recommended by the submitting institution. For CIP code classifications, please see <http://nces.ed.gov/ipeds/cipcode/Default.aspx?y=55>.

Institution Submitting Proposal: Utah State University

College, School or Division in Which Program/Administrative Unit Will Be Located: College of Engineering

Department(s) or Area(s) in Which Program/Administrative Unit Will Be Located: Department of Civil and Environmental Engineering

Program/Administrative Unit Title: PhD in Civil and Environmental Engineering

Recommended Classification of Instructional Programs (CIP) Code: 14.0801

Certificate, and/or Degree(s) to Be Awarded: Doctor of Philosophy in Civil and Environmental Engineering

Proposed Beginning Date: 08/26/2013

Institutional Signatures (as appropriate):

Craig D. Adams, PhD
Department Chair

H. Scott Hinton, Dean of College of Engineering
Dean or Division Chair

Career and Technical Education Director

Graduate School Dean

Council on Teacher Education

Date:

Program Request - Abbreviated Template
Higher Education Institution
Degree Type and Title
03/04/2013

Section I: Request

The Department of Civil and Environmental Engineering requests a reduction in the number of credits required for the doctoral degree in Civil and Environmental Engineering. The current requirements are 90 credits for students who enter with a BS degree, and 60 credits for those who enter with an MS degree. We propose to reduce the required credits for the students who enter with a BS degree to 72 credits, and the students who enter with an MS to 42 credits.

Program Credit Requirements and Proposed Amendment

	Current Credit Hour Requirements		Proposed Credit Hour Reduction per Abbreviated R401	
	PhD beyond MS	PhD beyond BS	PhD beyond MS	PhD beyond BS
Coursework	30	51 - 54	12 - 24	33 - 48
Research/ Dissertation	30	36 - 39	18 - 30	24 - 39
Total Credits	60	90	42	72

Section II: Need

Many of our peer institutions (Colorado State, University of California – Davis, New Mexico State, Oregon State, University of Nevada – Reno) as well as other competitive CEE programs (University of Arizona, University of North Carolina – Charlotte, Montana State) require 42 credits or less beyond an MS degree for a PhD in Civil and Environmental Engineering. In order for USU's Civil and Environmental Engineering PhD program to remain competitive, the minimum number of required credits must be reduced. Furthermore, a more tailored course load will allow more focused independent study of specialized topics relevant to the dissertation research itself.

Section III: Institutional Impact

There will be no change to administrative structures.
There will be no change in faculty or staff requirements.

Reducing our credit requirements for the PhD degree in Civil and Environmental Engineering will aid our recruiting efforts and allow us to attract outstanding students. The reduction in credit requirements will support our strategic plans for increasing our doctoral student enrollment, while allowing students to complete their degree in a more reasonable period of time.

Section IV: Finances

There will be no financial impact in the reduction of our credit requirements. Costs will neither increase nor decrease. No additional courses will need to be taught.

Cover/Signature Page - Abbreviated Template/Abbreviated Template with Curriculum

Institution Submitting Request: Utah State University

Proposed Title: PhD in Irrigation Engineering (no change from current title)

Currently Approved Title: Doctor of Philosophy (PhD) in Irrigation Engineering

School or Division or Location: College of Engineering

Department(s) or Area(s) Location: Department of Civil and Environmental Engineering

Recommended Classification of Instructional Programs (CIP) Code¹ (for new programs):

Current Classification of Instructional Programs (CIP) Code (for existing programs): 14.0899

Proposed Beginning Date (for new programs): 08/26/2013

Institutional Board of Trustees' Approval Date:

Proposal Type (check all that apply):

Regents' General Consent Calendar Items		
R401-5 OCHE Review and Recommendation: Approval on General Consent Calendar		
SECTION NO.		ITEM
5.1.1	<input type="checkbox"/>	Minor*
5.1.2	<input type="checkbox"/>	Emphasis*
5.2.1	<input type="checkbox"/>	Certificate of Proficiency*
5.2.3	<input type="checkbox"/>	Graduate Certificate*
5.4.1	<input type="checkbox"/>	New Administrative Unit
	<input type="checkbox"/>	Administrative Unit Transfer
	<input type="checkbox"/>	Administrative Unit Restructure
	<input type="checkbox"/>	Administrative Unit Consolidation
5.4.2	<input type="checkbox"/>	New Center
	<input type="checkbox"/>	New Institute
	<input type="checkbox"/>	New Bureau
5.5.1	<input type="checkbox"/>	Out-of-Service Area Delivery of Programs
5.5.2	<input type="checkbox"/>	Program Transfer
	XX	Program Restructure
	<input type="checkbox"/>	Program Consolidation
5.5.3	<input type="checkbox"/>	Name Change of Existing Programs
5.5.4	<input type="checkbox"/>	Program Discontinuation
	<input type="checkbox"/>	Program Suspension
5.5.5	<input type="checkbox"/>	Reinstatement of Previously Suspended Program
	<input type="checkbox"/>	Reinstatement of Previously Suspended Administrative Unit

*Requires "Section V: Program Curriculum" of Abbreviated Template

Chief Academic Officer (or Designee) Signature:

I certify that all required institutional approvals have been obtained prior to submitting this request to the Office of the Commissioner.

Signature

Date: MM/DD/YEAR

Printed Name: Name of CAO or Designee

¹ CIP codes must be recommended by the submitting institution. For CIP code classifications, please see <http://nces.ed.gov/ipeds/cipcode/Default.aspx?y=55>.

Institution Submitting Proposal: Utah State University

College, School or Division in Which Program/Administrative Unit Will Be Located: College of Engineering

Department(s) or Area(s) in Which Program/Administrative Unit Will Be Located: Department of Civil and Environmental Engineering

Program/Administrative Unit Title: PhD in Irrigation Engineering

Recommended Classification of Instructional Programs (CIP) Code: 14.0899

Certificate, and/or Degree(s) to Be Awarded: Doctor of Philosophy in Irrigation Engineering

Proposed Beginning Date: 08/26/2013

Institutional Signatures (as appropriate):

Craig D. Adams, PhD
Department Chair

H. Scott Hinton, Dean of College of Engineering
Dean or Division Chair

Career and Technical Education Director

Graduate School Dean

Council on Teacher Education

Date:

Program Request - Abbreviated Template
Higher Education Institution
Degree Type and Title
03/04/2013

Section I: Request

The Department of Civil and Environmental Engineering requests a reduction in the number of credits required for the doctoral degree in Irrigation Engineering. The current requirements are 90 credits for students who enter with a BS degree, and 60 credits for those who enter with an MS degree. We propose to reduce the required credits for the students who enter with a BS degree to 72 credits, and the students who enter with an MS to 42 credits.

Program Credit Requirements and Proposed Amendment

	Current Credit Hour Requirements		Proposed Credit Hour Reduction per Abbreviated R401	
	PhD beyond MS	PhD beyond BS	PhD beyond MS	PhD beyond BS
Coursework	30	51 - 54	12 - 24	33 - 48
Research/ Dissertation	30	36 - 39	18 - 30	24 - 39
Total Credits	60	90	42	72

Section II: Need

Our peer institutions (Colorado State, University of California – Davis) as well as other competitive Irrigation programs (University of Arizona, University of Florida) require 42 credits or less beyond an MS degree for a PhD in Irrigation Engineering. In order for USU's Irrigation Engineering PhD program to remain competitive, the minimum number of required credits must be reduced. Furthermore, a more tailored course load will allow more focused independent study of specialized topics relevant to the dissertation research itself.

Section III: Institutional Impact

There will be no change to administrative structures.
There will be no change in faculty or staff requirements.

Reducing our credit requirements for the PhD degree in Irrigation Engineering will aid our recruiting efforts and allow us to attract outstanding students. The reduction in credit requirements will support our strategic plans for increasing our doctoral student enrollment, while allowing students to complete their degree in a more reasonable period of time.

Section IV: Finances

There will be no financial impact in the reduction of our credit requirements. Costs will neither increase nor decrease. No additional courses will need to be taught.

Cover/Signature Page - Abbreviated Template

Institution Submitting Request: Utah State University

Proposed Title: PhD in Human Dimensions of Ecosystem Science and Management (no change from current title)

Currently Approved Title: PhD in Human Dimensions of Ecosystem Science and Management

School or Division or Location: Quinney College of Natural Resources

Department(s) or Area(s) Location: Department of Environment and Society

Recommended Classification of Instructional Programs (CIP) Code¹ (for new programs): 03.0201

Current Classification of Instructional Programs (CIP) Code (for existing programs): 03.0201

Proposed Beginning Date (for new programs): 08/26/13

Institutional Board of Trustees' Approval Date:

Proposal Type (check all that apply):

R401-5		R401-6	
<i>Items submitted will be reviewed by OCHE. If there are any issues, the proposal will be returned for clarification/correction. If no issues, the proposal will be returned with a note of approval and the request will be placed on the General Consent Calendar of the next Regents' agenda.</i>		<i>Items submitted will be reviewed by OCHE. If there are any issues, the proposal will be returned for clarification/correction. If no issues, the proposal will be returned with a note of approval and the request will be placed on the General Consent Calendar of the next Regents' agenda.</i>	
Section #	Item	Section #	Item
4.1.5.2	<input type="checkbox"/> Minor*	6.1.1	<input type="checkbox"/> Reinstatement of Previously Suspended Program
5.1.1.1	<input type="checkbox"/> New Emphasis on an Existing Degree*	6.1.5	<input type="checkbox"/> Reinstatement of Previously Suspended Unit
5.1.2	<input type="checkbox"/> Certificate of Proficiency Not Eligible for Financial Aid		
5.1.3	<input type="checkbox"/> Out-of-Service Area Delivery of Programs		
5.1.4	<input type="checkbox"/> Name Change of Existing Programs		
	<input type="checkbox"/> Program Transfer		
5.1.5	<input checked="" type="checkbox"/> Program Restructure		
	<input type="checkbox"/> Program Consolidation		
5.1.6	<input type="checkbox"/> Program Discontinuation		
	<input type="checkbox"/> Program Suspension		
	<input type="checkbox"/> Administrative Unit Creation		
5.1.7	<input type="checkbox"/> Administrative Unit Transfer		
	<input type="checkbox"/> Administrative Unit Consolidation		
	<input type="checkbox"/> New Center		
5.1.8	<input type="checkbox"/> New Institute		
	<input type="checkbox"/> New Bureau		
5.1.9	<input type="checkbox"/> Graduate Certificate		

*Requires "Section VI: Program Curriculum" of Abbreviated Template

Chief Academic Officer (or Designee) Signature:

I certify that all required institutional approvals have been obtained prior to submitting this request to the Office of the Commissioner.

Signature

Date: MM/DD/YEAR

Printed Name:

¹ CIP codes must be recommended by the submitting institution. For CIP code classifications, please see <http://nces.ed.gov/ipeds/cipcode/Default.aspx?y=55>.

Institution Submitting Proposal: Utah State University

College, School or Division in Which Program/Administrative Unit Will Be Located: Quinney College of Natural Resources

Department(s) or Area(s) in Which Program/Administrative Unit Will Be Located: Environment and Society

Program/Administrative Unit Title: Environment and Society

Recommended Classification of Instructional Programs (CIP) Code: 03.0201

Certificate, and/or Degree(s) to Be Awarded: PhD in Human Dimensions of Ecosystem Science and Management

Proposed Beginning Date: August 26, 2013 (fall semester)

Institutional Signatures:

Mark Brunson, Department Head
Environment and Society

Chris Luecke, Dean,
Quinney College of Natural Resources

Mark R. McClellan, Vice President for Research
And Dean of Graduate Studies

Date: February 25, 2013

Program Request - Abbreviated Template
Utah State University
PhD in Human Dimensions of Ecosystem Science and Management
02/25/2013

Section I: Request

The Department of Environment and Society proposes to restructure its PhD degree in Human Dimensions of Ecosystem Science and Management. The current credit hour requirements are 60 credits for students entering with an MS degree and 90 credits for students without a MS degree. We propose reducing the required credit hours for both tracks by 30 credits, to 60 credits for students who enter with a BS and to 30 credits for students with an MS.

Section II: Need

This change is requested to provide more flexibility for students and supervisory committees, and to maintain competitiveness with other doctoral programs within Utah State University as well as other universities. While many students may need to complete 60 credits or more beyond a Master's degree before they are ready to earn the doctorate, others may find they are enrolling in unnecessary coursework or dissertation credits simply to reach to 60-credit threshold. We will stress that a shift to 30 semester-hours with MS, 60 without, is a *minimum* threshold but the decision about necessary coursework should rest largely with the supervisory committee, which is best-equipped to determine what an individual student needs to do to prepare for a doctorate in his/her specific subfield of ecology.

Earlier this year the other doctoral programs in the Quinney College of Natural Resources have reduced their credit requirements for the doctorate to 60 credits past the Bachelor's degree, 30 past the Master's. Because our degree program is relatively new and was one of the first of its kind when introduced in 2004, we chose to conduct a thorough review of the overall structures and requirements of similar programs as well as their credit requirements before submitted a request for a program restructure. This review showed that the most similar programs at peer institutions require a minimum of 48 units past the Bachelor's degree and a maximum of 78 credits. We have concluded that reducing our credit requirement to 60 will enhance recruitment into the degree while maintaining a program that compares favorably to any of our peers.

Section III: Institutional Impact

We do not anticipate a negative impact on this institution. On the contrary, we expect that the proposed change can result in increased interest in this degree. The proposed change will not affect our administrative structures, faculty or staff demands, or academic requirements for the program.

Section IV: Finances

No additional costs or savings are anticipated as a result of this change. Currently more students are interested in this program than the department can support. If students are able to complete their degrees more quickly we may eventually be able to accept and graduate more students than we do currently.

Section V: Program Curriculum

Not applicable for this category of request.

**Program Request
Utah State University
Bachelor of Science (B.S.) Degree – Aviation Technology - Professional Pilot
Creation of Two Emphasis Areas: Fixed-Wing and a Rotorcraft Emphasis
3/18/2013**

Section I: Request

This program request is to create two emphasis options within the undergraduate B.S. Aviation Technology – Professional Pilot Degree. The current Aviation Technology - Professional Pilot program does not have an emphasis options because all students obtain certifications in fixed-wing aircraft. With the opportunity to partner with a local FAA approved helicopter school that can provide the required courses in helicopter certification, the program would like to request the creation of two separate emphasis areas: Fixed Wing Emphasis and Rotorcraft (i.e., helicopter) Emphasis.

Section II: Need

Helicopter training associated with a Bachelor of Science degree in collegiate aviation is available at only a few locations in the United States. The list includes Embry-Riddle Aeronautical University, Middle Georgia College, and University of North Dakota. Our degree-seeking students who are presently interested in flying helicopters and obtaining a degree must first complete flight training in a fixed-wing program and then after graduation, attend a program that offers rotorcraft training.

A local Federal Aviation Administration (FAA) approved helicopter training school accredited by the Accrediting Commission of Career Schools and Colleges (ACCSC) is located at the Logan-Cache Airport and has been serving USU as well other students who desire their helicopter certification. This Helicopter flight school notes that it receives approximately 120 inquiries per semester from veterans, wishing to utilize their VA benefits, and non-veterans to attend a helicopter program that offers the opportunity to obtain an undergraduate degree. A four-year bachelors' degree helicopter program does not exist within Utah to accommodate these requests. Salt Lake Community College offers an Associate of Applied Science (A.A.S.) Degree which is currently training 150 students and they report to us that it is at or near capacity. A need exists in the Intermountain region to provide students a B.S. degree with a Rotorcraft emphasis. This need can be met by partnering with the local FAA approved helicopter school and creating two emphasis areas within the current USU Aviation Technology - Professional Pilot Degree Program.

Section III: Institutional Impact

There will be no impact on organizational structure nor will there be a requirement to increase faculty or staff. Our current aviation professional pilot faculty could add additional students to the flight program in the non-flying courses in the core of the degree program with minimal impacts. The courses required by the helicopter emphasis will be conducted under contract with an FAA-approved helicopter flight vendor, who will utilize their own staff, instructors, facilities and equipment as described in a Memorandum of Understanding (MOU). They will use the USU campus learning management system, grading system, and other institutional resources. Those personnel will be trained to comply with, and must abide by University policies and procedures. Financial and bookkeeping procedures will follow current USU Pilot Degree

Program guidelines. An individual from the USU flight program will be designated to insure quality control, contract compliance and close coordination with the helicopter vendor.

This program change will increase enrollment in degree-required and elective courses of the program. We anticipate the potential incremental enrollment rate at Utah State to be approximately 25-30 students per year. For example, 10 USU currently enrolled in the aviation program have expressed interest in the helicopter program.

Students who transfer into the Rotorcraft emphasis with flight-related rotor wing credits from an accredited college or university will submit their transcripts to be articulated to courses at USU. Students who transfer into the Rotorcraft emphasis who earned FAA flight certificates from flight schools that did not grant college credit can receive college credit through a special examination process. The student will be required to show they meet institutional standards by completing a challenge flight and record of special examination form, which will be handled by the Registrar's Office to place comparable credit on the student's transcript.

Utah State University will not only benefit from the increased enrollment in existing courses, but will also be of great service to the veterans desiring to receive a bachelor's degree in aviation with their GI Bill. It would also enhance the opportunities of our students to follow the helicopter career path without the added expense of duplication and transition training costs after graduation.

Section IV: Finances

For more than two years, USU has been in negotiations with the local helicopter training program and they are willing to partner with USU and its Professional Pilot's Degree Program. This partnership will be described in a Memorandum of Understanding that will be reviewed by USU's legal counsel. This MOU will show that the flight vendor is responsible for all associated costs, including state insurance requirements, for courses specific to the Aviation Technology - Professional Pilot Rotorcraft emphasis. The vendor will be responsible for classroom instructor costs associated with the proposed 13 Helicopter-specific courses to be offered. Tuition, Flight, Special and Class Fees will be collected by USU. The flight vendor will bill the University in accordance with the Memorandum of Understanding for costs related to rotorcraft flight instruction.

Section V: Program Curriculum

This request will create two emphasis areas in the Professional Pilot's Degree Program, a Fixed-Wing and a Rotorcraft Emphasis. All courses for the Fixed Wing emphasis option are currently offered by USU (see below). The new Rotorcraft emphasis area will require the creation of 13 new helicopter flight and ground school-related courses (see below) and these new USU courses will be taught by the helicopter flight training school under the supervision of USU's Professional Pilot's Degree Program.

B.S. Degree Check Sheet – Aviation Technology
Professional Pilot's Degree Program, Fixed-Wing and a Rotorcraft Emphasis Areas

Course Prefix & Number	Title	Credit Hrs
Professional Pilot Core		
AV 1100	The Aviation Professional	1
AV 1130	Flight Principles	2
AV 2180	Aircraft Hydraulic and Pneumatic Systems	2
AV 2330	Private Pilot Ground School	4
AV 2430	Aircraft Electrical Sys and Components	2
AV 2520	Instrument Pilot Ground School	4
AV 2620	Commercial Pilot Ground School	2
AV 3010	National Airspace	3
AV 3120	Aviation Law	3
AV 3720	Certified Flight Instructor Basic and Instrument Ground School (CI)	3
AV 4490	Human Factors and Safety	3
AV 4660	Flight Senior Project (CI)	3
ENGL 1010	Introduction to Writing (CL1)	3
ENGL 2010	Intermediate Writing (CL2)	3
MATH 1050	College Algebra (QL)	4
MATH 1060	Trigonometry	2
MATH 1100	Calculus Techniques (QL)	3
MGT 3110	Managing Org. and People	3
PHYS 1800	Physics of Technology (BPS)	4
PSC 2000	The Atmosphere and Weather (BPS)	3
PSC 3250	Aviation Weather	3
TEE 2300	Electronic Fundamentals	4
	Breadth American Institutions	3
	Breadth Creative Arts	3
	Breadth Humanities	3
	Breadth Life Sciences	3
	Breadth Social Sciences	3
	Depth Humanities and Creative Arts	3
	Subtotal	82
Fixed-Wing Emphasis Requirements		
AV 2170	Aircraft Systems	2
AV 2350	Private Pilot Certification	1
AV 2550	Intermediate Flight	1
AV 2540	Instrument Pilot Certification I	1
AV 2550	Instrument Pilot Certification II	1
AV 2660	Commercial Pilot Certification	1
AV 2740	Certified Flight Instructor Certification	1

AV 2860	Certified Flight Instructor Instrument Certification	1
AV 2880	Multi-Engine Certification	1
AV 3140	Advanced Avionics Flight Simulator	3
AV 4280	Airline Management	3
AV 5400	Regional Jet Ground School I	4
AV 5410	Regional Jet Ground School II	4
AV 5420	Regional Jet Simulator	3
Designated Electives	Chosen from approved list	11
		38
Rotorcraft Emphasis Requirements		
AV 2175	Helicopter Systems	2
AV 2355	Private Pilot Helo Certification	1
AV 2515	Intermediate Flight Helicopters	1
AV 2545	Instrument Pilot Helicopter Certification I	1
AV 2555	Instrument Pilot Helo Cert II	1
AV 2665	Commercial Pilot Certification Helicopter	1
AV 2745	Certified Flight Instructor Certification Helicopter	1
AV 2865	Certified Flight Instructor Instrument Certification Helicopter	1
AV 3145	Helicopter Simulator	3
AV 3885	Turbine Transition	2
AV 4505	Robinson Helicopter Systems	3
AV 4605	Helicopter Industry Applications	3
AV 4705	Crew Resource Management, Safety Management Systems, Aeronautical Decision Making	3
Designated Electives	Chosen from approved list	15
	Subtotal	38
	Total Number of Credits (Each emphasis/option)	120

Proposed Course Sequence for Both Emphasis Areas

Note: Courses shown in **bold** indicate new courses.

FRESHMAN YEAR

Fall Semester

Fixed Wing Emphasis (existing)

AV 1100 - The Aviation Profession 1
AV 1130 - Flight Principles 2
AV 2330 - Private Pilot Ground School 4
AV 2350 - Private Pilot Airplane Certification 1
MATH 1050 - College Algebra (QL) 4
Breadth American Institutions 3

New Rotorcraft Emphasis

AV 1100 - The Aviation Profession 1
AV 1130 - Flight Principles 2
AV 2330 - Private Pilot Ground School 4
AV 2355 Private Pilot Helicopter Cert 1
MATH 1050 - College Algebra (QL) 4
Breadth American Institutions 3

Spring Semester

AV 2170 - Aircraft Systems 2
AV 2510 - Intermediate Flight A/C 1
ENGL 1010 - Introduction to Writing 3
TEE 2300 - Electronic Fundamentals 4
MATH 1060 - Trigonometry 2
Elective 2

AV 2175 - Helicopter Systems 2
AV 2515 - Intermediate Flight Helicopter 1
ENGL 1010 - Introduction to Writing 3
TEE 2300 - Electronic Fundamentals 4
MATH 1060 - Trigonometry 2
Elective 3

Total Credits: 29

Total Credits: 30

SOPHOMORE YEAR

Fall Semester

AV 2180 Aircraft Hydraulic Pneum Sys 2
AV 2520 - Instrument Pilot Ground School 4
AV 2540 - Instrument Pilot AC Certification I 1
MATH 1100 - Calculus Techniques (QL) 3
PSC 2000 - The Atmosphere and Weather 3
Univ Studies Breadth Life Sciences (BLS) 3

AV 2180 Aircraft Hydraulic Pneum Sys 2
AV 2520 - Instrument Pilot Ground School 4
AV 2545 - Instrument Pilot Helicopter Cert I 1
MATH 1100 - Calculus Techniques (QL) 3
PSC 2000 - The Atmosphere and Weather 3
Univ Studies Breadth Life Sciences 3

Spring Semester

AV 2430 - Aircraft Electrical Sys and Compnts 2
AV 2550 - Instrument Pilot AC Certification II 1
ENGL 2010 - Intermediate Writing: 3
PSC 3250 - Aviation Weather 3
Univ Studies Breadth Humanities 3
Elective 3

Total Credits: 31

AV 2430 - Aircraft Elec Sys & components 2
AV 2555 - Instrument Pilot Helicopter Cert II 1
ENGL 2010 - Intermediate Writing: 3
PSC 3250 - Aviation Weather 3
Univ Studies Breadth Humanities 3
Elective 3

Total Credits: 31

JUNIOR YEAR

Fall Semester

AV 2620 - Commercial Pilot Ground School 2
AV 2660 - Commercial Pilot AC Certification 1
AV 3010 - National Airspace 3
AV 3120 - Aviation Law 3
AV 3140 - Advanced Avionics light Simulation 3
University Studies Breadth Creative Arts 3

AV 2620 - Commercial Pilot Ground School 2
AV 2665 - Commercial Pilot Cert Helicopter 1
AV 3010 - National Airspace 3
AV 3120 - Aviation Law 3
AV 3145 - Helicopter Simulator 3
University Studies Breadth Creative Arts 3

Spring Semester

AV 3720 - CFI and CFII Grd School (CI) 3
AV 2880 - Multi-Engine Certification 1
AV 4490 - Human Factors in Aviation Safety 3
AV 5400 - Regional Jet Ground School I 4
MGT 3110 - Managing Org. and People 3

Total Credits: 29

AV 3720 - CFI and CFII Grd School (CI) 3
AV 3885 - Turbine Transition 2
AV 4490 - Human Factors in Aviation Safety 3
AV 4505 - Robinson Helicopter Systems 3
MGT 3110 - Managing Org. and People 3

Total Credits: 29

SENIOR YEAR

Fall Semester

AV 2740 – CFI AC Certification 1
AV 4280 - Airline Management 3
AV 4660 - Flight Senior Project 3
AV 5410 - Regional Jet Grd School II 4
Univ Studies Breadth Social Sciences 3
Directed Elective 3

AV 2745 - CFI Certification Helicopter 1
AV 4605 - Helicopter Industry Apps 3
AV 4660 - Flight Senior Project 3
Univ Studies Breadth Social Sciences 3
Directed Elective 3
Elective 3

Spring Semester

AV 2860 - CFII AC Certification 1 ²
AV 5420 - Advanced Regional Jet Simulation 3
PHYS 1800 - Physics of Technology (BPS) 4
Univ Studies Depth Humanities Creative Arts 3
Elective 3

AV 2865 - CFII Helicopter Certification 1
AV 4705 - CRM/SMS/ADM 3
PHYS 1800 - Physics of Technology 4
Univ Studies Depth Humanities Creative Arts 3 Directed

Total Credits: 31

Total Credits: 30

Program Total Credits: 120 credits

Program Total Credits: 120 credits